Notice of Allowability Examiner Art	Applicant(s)
## Notice of Allowability ## Cynthia Britt ## Cynthia ## Cynth	BHASIN ET AL.
The MAILING DATE of this communication appears on the cover sheet with the corres All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this applicate herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to with of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. ☑ This communication is responsive to 7/20/04. 2. ☑ The allowed claim(s) is/are 1-20. 3. ☑ The drawings filed on 18 January 2001 are accepted by the Examiner. 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this nation International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE *MAILING DATE* of this communication to file a reply composed below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AN INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration in CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) 1) ☐ hereto or 2) ☐ to Paper No./Mail Date Identifying indicla such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MAItachment(s) 1. ☐ Notice of Informal Paten	Art Unit
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Application/Control Number: 09/765,478

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The present invention pertains to a sequence based verification technique for verifying the functionality of hardware components that move data between nodes in a computer system. The claimed invention recites (claim 14 as representative of the other independent claims 1 and 8) features such as "...a drive module which starts multiple drive loops that pick up packets from the drive buffer and force the device under test to drive the packets in accordance with the determined sequence, the drive module ensuring that each drive loop satisfies specified timing and relation criteria prior to allowing the drive loop to force the device under test; and

an expect module which starts multiple expect loops that pick up packets driven by the device under test, the expect module ensuring that each expect loop satisfies specified timing and relation criteria prior to allowing the expect loop to expect and pick up a packet driven by the device under test, the expect module raising an error flag if the expected packet does not arrive within a specified time period."

The prior arts of record (Allingham U.S. Patent No. 5,937,182 is an example of such prior arts) teach a design verification system for simulating designs and evaluating the simulation results against a set of expected events. A set of expected events are generated and loaded into an expect buffer. As the simulation proceeds, each modeled device collects data on each event into an event record. Each event record is compared against the set of expected events. If the set of expected events contains an

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entry that matches the event record, the matching entry is removed from the expect buffer. If a matching entry is not found then the event record is flagged as an error.

The prior arts however, do not teach a process loop that (i) is configured to expect a data packet within a specified time period and (ii) picks up the expected packet if the expect packet arrives within the specified time period. As such, modification of the prior art of record can only be motivated by hindsight reasoning. Therefore, it is not clear that one of ordinary skill in the art at the time of the invention would have made the necessary modifications to the prior art of record to encompass the limitations set forth in the present application. Moreover, none of the prior arts of record, taken either alone or in combination, anticipate nor render obvious the claimed inventions. Hence, claims 1-20 are allowable over the prior arts of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia Britt whose telephone number is 571-272-3815. The examiner can normally be reached on Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on 571-272-3819. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ध्य Cynthia Britt Examiner Art Unit 2133

Gruy of Lamarre Primary Examiner